

02/07/14 Agenda

- Warm up exercise
- Review Homework
 - Worksheet 6.3 day 2 - Solve by Elimination
- Sections 6.1 - 6.3 - Mixed Review / Best Method

Homework - Solving Systems 3 Ways - 2 sets of equations

QUIZ on MONDAY (2/09)!!!!

Warm Up - Homework out!

Solve for y:

$$\begin{array}{r}
 5x - 2y = 13 \\
 \underline{-5x} \quad \underline{-5x} \\
 -2y = -5x + 13 \\
 \underline{-2} \quad \underline{-2} \quad \underline{-2} \\
 y = \frac{5}{2}x - \frac{13}{2} \\
 y = \frac{5}{2}x - 6.5
 \end{array}$$

Solve using substitution:

$$\begin{array}{l}
 y = \frac{1}{2}x \quad (7, 3.5) \\
 2x + 3x = 28 \\
 2(\frac{1}{2}x) + 3x = 28 \\
 1x + 3x = 28 \\
 4x = 28 \\
 \underline{4} \quad \underline{4} \\
 x = 7 \\
 y = \frac{1}{2}x \\
 y = \frac{1}{2}(7) \\
 y = 3.5
 \end{array}$$

Solve using elimination:

$$\begin{array}{r}
 (-7, 6) \\
 x + 3y = 11 \\
 -(2x + 3y = 4) \\
 \hline
 -x = 7 \\
 \underline{-1} \quad \underline{-1} \\
 -x = 7 \\
 \underline{-1} \quad \underline{-1} \\
 x = -7 \\
 x + 3y = 11 \\
 -7 + 3y = 11 \\
 \underline{+7} \quad \underline{+7} \\
 3y = 18 \\
 \underline{3} \quad \underline{3} \\
 y = 6
 \end{array}$$

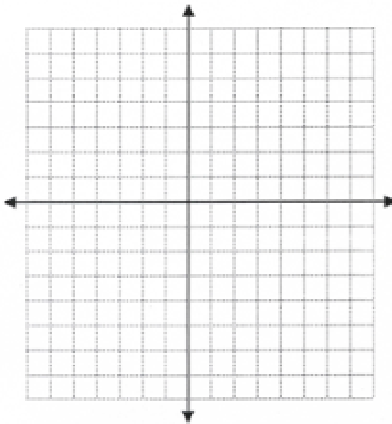

Solving Systems of Equations 3 Ways

Instructions:

1. Grab a sheet of the "Solving Systems of Equations 3 Ways" paper.
2. **Select a System of Equations (or the one I assign).**
3. Solve the system ALL 3 ways, graph it, solve it by substitution, and solve it by elimination.
4. **In the forth quadrant, explain which method was the best (easiest) and why YOU thought it was the best.**
5. When you finish, get another System of Equations from me and **do another one on the back of the page.**

Name _____ Per. _____ Date _____

Solving Systems of Equations 3 Ways

GRAPHING	SUBSTITUTION
 <p style="margin-top: 20px;">SOLUTION: _____</p>	<p style="margin-top: 20px;">SOLUTION: _____</p>
<div style="border: 1px solid black; display: inline-block; padding: 10px; margin: 10px 0;"> <u>System:</u>  </div>	
<p style="margin-top: 20px;">SOLUTION: _____</p>	<p style="margin-top: 20px;">SOLUTION: _____</p>
ELIMINATION	Which method was best? Why?

Assignment

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Solve each system by graphing.

1)
$$\begin{aligned} 3x - y &= 4 \\ x + 2y &= 6 \end{aligned}$$

2)
$$\begin{aligned} x + 2y &= -8 \\ x - 4y &= 4 \end{aligned}$$

3)
$$\begin{aligned} x + 2y &= 4 \\ 3x + 2y &= 8 \end{aligned}$$

4)
$$\begin{aligned} x - 2y &= -6 \\ x + y &= -3 \end{aligned}$$

5)
$$\begin{aligned} 2x + 3y &= 6 \\ 2x + y &= -2 \end{aligned}$$

6)
$$\begin{aligned} x + 4y &= 4 \\ x + y &= -2 \end{aligned}$$

7)
$$\begin{aligned} 5x + 2y &= 2 \\ x + 2y &= -6 \end{aligned}$$

8)
$$\begin{aligned} x + y &= 3 \\ 5x - 2y &= 8 \end{aligned}$$

9)
$$\begin{aligned} x + 2y &= -4 \\ x - y &= -1 \end{aligned}$$

10)
$$\begin{aligned} x - y &= -3 \\ x + 2y &= -6 \end{aligned}$$

11)
$$\begin{aligned} x + 3y &= 9 \\ 2x + y &= -2 \end{aligned}$$

12)
$$\begin{aligned} x + 4y &= -8 \\ 3x + 2y &= 6 \end{aligned}$$

13)
$$\begin{aligned} x - 4y &= 12 \\ 2x - y &= -4 \end{aligned}$$

14)
$$\begin{aligned} 2x - y &= -4 \\ 3x + y &= -1 \end{aligned}$$

15)
$$\begin{aligned} 5x - 2y &= -8 \\ 3x + 2y &= -8 \end{aligned}$$

16)
$$\begin{aligned} x + y &= 1 \\ 2x - 3y &= 12 \end{aligned}$$

17)
$$\begin{aligned} x - 2y &= 6 \\ 5x + 4y &= 16 \end{aligned}$$

18)
$$\begin{aligned} 3x + 2y &= 6 \\ 3x + 2y &= 8 \end{aligned}$$

$$\begin{array}{l} 19) \ 7x - 4y = -12 \\ \quad x - 4y = 12 \end{array}$$

$$\begin{array}{l} 20) \ x + 4y = -16 \\ \quad x - 2y = 2 \end{array}$$

$$\begin{array}{l} 21) \ x - 2y = -6 \\ \quad 3x - 2y = -2 \end{array}$$

$$\begin{array}{l} 22) \ 5x - 3y = -6 \\ \quad x = -3 \end{array}$$

$$\begin{array}{l} 23) \ 5x - 2y = 6 \\ \quad x - 2y = -2 \end{array}$$

$$\begin{array}{l} 24) \ 4x - y = -4 \\ \quad x - y = 2 \end{array}$$

$$\begin{array}{l} 25) \ 2x + y = 4 \\ \quad 2x + y = -1 \end{array}$$

$$\begin{array}{l} 26) \ y = -2 \\ \quad 5x - 3y = -9 \end{array}$$

$$\begin{array}{l} 27) \ x - 2y = -8 \\ \quad x + 2y = 4 \end{array}$$

$$\begin{array}{l} 28) \ x + y = -3 \\ \quad x - y = 1 \end{array}$$

$$\begin{array}{l} 29) \ x - y = 3 \\ \quad x + y = 1 \end{array}$$

$$\begin{array}{l} 30) \ 3x + 2y = 8 \\ \quad 5x - 2y = 8 \end{array}$$

$$\begin{array}{l} 31) \ 7x + 4y = -16 \\ \quad x + 2y = 2 \end{array}$$

$$\begin{array}{l} 32) \ x - y = -4 \\ \quad 7x + y = -4 \end{array}$$

$$\begin{array}{l} 33) \ 3x - y = 1 \\ \quad 2x + y = 4 \end{array}$$

$$\begin{array}{l} 34) \ 2x - 3y = -3 \\ \quad x + 3y = 12 \end{array}$$

$$\begin{array}{l} 35) \ 2x + y = -1 \\ \quad 2x + y = 1 \end{array}$$

$$\begin{array}{l} 36) \ x - 4y = -8 \\ \quad 3x - 2y = 6 \end{array}$$

$$\begin{array}{l} 37) \ x + 2y = 4 \\ \quad 5x + 2y = -4 \end{array}$$

$$\begin{array}{l} 38) \ x + y = 1 \\ \quad x - 2y = 4 \end{array}$$

$$\begin{array}{l} 39) \ x + y = 3 \\ \quad 7x + y = -3 \end{array}$$

$$\begin{array}{l} 40) \ y = 3 \\ \quad 4x + 3y = -3 \end{array}$$